Notebook Series -- Notebooks by Edison and Other Experimenters
Disc Record Book No. 6
Notebook, N-12-00-00.5

This undated notebook was used by Edison, probably during February 1916, for notes on the composition and application of varnish surfaces used for disc records. Included are notes describing a sequence of experiments numbered from 272E to 365E; some entries have been crossed out or marked "cancelled." Most of the entries indicate results obtained from varying the ingredients and proportions in the varnish applied, as well as varying the processes for baking and the schedules for the application of the transfer press. The summary of results usually provides a tally of acceptable and unacceptable record surfaces obtained. Also included are notes relating to attempts to remove wrinkles on surfaces. Some notes are the form of instructions to Sherwood T. (Sam) Moore, Archie D. Hoffman, or other employees. Inserted into the book is one loose item by Edison, which tabulates some of the results. The front cover is labeled "Disc 6." The pages are unnumbered. Approximately 160 pages have been used.

1 =	2 drops	3" PO	3 drops	24	Pull O
2	"	3 OK	3 "	24	"
3	"	3 OK	3 "	24	"
4	"	2 OK	3 "	24	OK
5	"	2 OK	1 "	24	OK
6	"	2 PO.	4 "	24	PO

Plates Too warm

4 OK 2 OK

RO	7 wie	~~IIII~~ ~~IIII~~ II
1		
2	good	
3		
4		
5	fair	
6	Ref	
None		

Put up 1 Cage plates in oven use lab on following schedule
1220 Cold
1 pm 158
1 40 192
2 50 242
3 55 271 then Cool

Extra run 271

Transferred 2 = 3 OK plates 1 dessicated plate
to make 2 —

1 = OK free 6-1-PO
2 = pull outs - pull outs

NG—

Yes soft
Brittle

No prints

Scratches with finger nail Easy

272 E find out what 116 Var is

Oven to 62 run on Safe Schedule
75 plates each number flowed
with 60 cc each - always 66 cc
in all these Experiments
Dont use any Sandrac in any

272 = 16% Resin $5\frac{1}{2}$% $\frac{6}{4}$

$1\frac{1}{2}$ Para

Para always the same $1\frac{1}{2}$%

Var Var: Creeps Wrinkle Very light oil scum on top of plates plates Look OK

70 plates - 11 Thrubs 59 good of
oven
good 36 wrinkled 4 uneven 19 Even

6 Transferred 2 OK - 3 pull outs 1 Crooked Center
Prints - 4 OK 1 poor print 2 ckd on 1 side

1 =	24" Drop OK	2" Drop Pull out
2	Stuck	2" " OK
3	free 1 pull	4" " OK
4	3" OK	24 2 times pull out
5	2 OK	24 3 times OK
6	2 twice Pull out	8 twice OK

Plates too warm

4 OK

3 OK

Brought up one Cage in lab oven following schedule

Cold 1220
1 pm 160
2 30 192
2 50 242
3 55 271 then Cool

Extra Run 271° faster

Transfers 1 - Pull out free
2 - " 1-4-
3 OK free -
4 1 free bird
free bird

6-2- bird
9 2 po
free bird
6-1- po
6-2- bird

No prints

Scratches Easy with finger nail

273 EA =

75 plates

Duplicate of 272. Except

5% 6/4 - 1½ Para
flow 60 cc

Safety Schedule Big oven

67 plates 6 Bubbles 61 OK

Not hardened Enough -
pulls out + breaks Very
One side Very hard ~~off~~
24" drop other 2" drop

This is due to mechanical malfunction on killing Top came off

Varnish

Creases Worlds, spokes radiate from rim
Loaded OK
67 plates 6 Bubbles - 61 OK
of OK - 21 even 3 uneven 37 wrinkled

RO

1
2
3
4
5
6 III
None ~~IIII~~ IIII

Fine ~~IIII~~ ~~IIII~~ II

good

274 EB

75 plates

Duplicate 272 Except 4.75 % 6/4

160 cc

65 plates 9 bubbles 56

Oven —
Creases Middle, slight air ocum Van OK
OVEN
65 plates 9 Bubs 56 OK —
of like OK 3 Even 53 Wrinkled

Transfer 6 — 6 pull outs —

Prints 6 —

Inspection 1 = Margin Cks parallel — other side fed Ima Ck
2 = " parallel Cks Margin —
3 = poor print both sides —
4 = Margin Parallel Cks — detto parallel — Marg
5 parall Cks Margin both sides
6 nearly parallel Margin Cks —

I had — — — in middle of
possibly a plant to pull out — smooth print —

Plates Coated

1 —	one 4"	PO	1	8" drop	PO
2	"	PO	3	15" "	PO
3	Loose	PO	1	4" "	PO
4	Loose	PO	2	8 "	PO
5	Loose	PO	3	20 "	PO
6	1 4"	PO	2	15 "	PO

No OK

Re-inspection

1 = both sides Marquicks parallell -
2 = pull outs on Marquis -
3 = OK - other marquis [illegible] parallel
4 = parallell Marquis [illegible]
5 = parallell Cks -
6 poor pull marquicks not poor print

I think due to Var plate unevenness

No test

Easy Cut by finger nail
goes in

Reproducer no signs of Cert
Cant see where it breaks on smooth side -

Awful Raft

275 EC

Dup 272. Except 4½% 6/4
60 cc

71 plates 5 bubbles 66 OK

Varnish = Crepe - Matte slight acid
accum - sparks radiate from run Var OK
Oven
71 plates 5 bubbles 66 OK after heat
19 even 8 uneven 39 wrinkled

Wants something to stop pull outs - possibly Sandrac ?

276 ED

Duplicate of 272 except
$4\frac{1}{4}$% 6/4 60cc

65 plates 10 bubbles 55 OK

Varnish - Creeps, Wrinkle, slight oil scum
spokes radiate from rim Van OK

Oven — 66 plates 59 OK of
which 16 even 5 uneven, 38 wrinkled

277E.F.

Duplicate 272 Except

4% 6/4 60cc

67 plates 8 Bubbles 59 OK

Varnish — Crazy Mottled slight act scum spokes radiate from rim — Var OK

Oven — 67 plates 8 bubbles 59 OK
of which 22 even 18 uneven
19 wrinkled

278EG

Duplicate of 272

3 3/4 % 6/4 60cc

68 plates 10 Bubbles 58 OK

Yarnel = Crasps, Malto, oil seeds
Spokes [illegible] from rim = Van OK

Oven – 68 plates 58 OK of which
8 Even 34 Uneven 16 wrinkled

	1 —	free OK	free	OK
	2	free OK	8-1	OK
Transfers	3	free OK	4-1 —	OK
	4	free OK	6-3	OK
	5	free OK	free	OK
	6	" "	"	"

No test for surface
Can just scratch surface —
Reg V will not stand this schedule —

279EH

1412 Blank

Regular Varnish Sandrac
left out, 7.9 — 6.0 cc

69 plates 30 bubbles 39 OK

Varnish — Even on plates — Mottled
spokes radiate from rim — Var OK

Oven 69 plates 39 OK 30 bubbles
of OKs 4 Even 5 uneven 30 crinkled
transfer on
1412 blank 5% LB put on brush dried 2 hours

Transfers 6 — 5 OK 1 Ckd Var —
Prints 5 OK —

Rs inspected 24 hours after
1 = OK
2 = Margin Ck Discard
3 = OK
4 Ckd on Margin running in
5 Poor print on Margin
6 Ckd —

Bad

5 think thick pin drill

1 -	free OK	10-2	OK
2	free OK	10-3	OK
3	free OK	4-1	OK
4	free OK	free	OK
5	" OK	"	Ckd *
6	" OK	"	OK

RO free

1
2
3 1-wrinkle good
4
5 1 wrinkle free
6 IIII
now IIII Ruf

Resensitized - Run afternoon 24 hours

RO 1 Ckd in Music + Margin radial
2 radial - part in " part - music
3 Margin Cracks -
4 lengthwise 2" Crack -
5 Ckd margin running into music
6 Margin Crack

Weld 1/4 but tears blank off - OK

280 EJ

Reg Varnish no Sandrac - but with 7½% 6/4 60 cc

76 plates 32 bubbles 2 Cracked 42 OK

Varnish - Creepers spotted randomly from run - Var OK.

Oven 74 plates 34 bubbles 40 OK of 40 OK 5 Green 2 wrinkled 33 wrinkled

6 - Transferred on 1412 - Brushed 5/0 LB 2 hours

Print 6 - Crippled scalloping

Transfer 6 - 2 OK - 2 Cooked Center 2 Ckd Var

1	free OK	free OK
2	" OK	4-1 OK
3	4-1- OK	10-2- OK
4	free OK	free OK
5	free OK	free OK
6	free OK	free OK

RO	Fine	
1		
2	good	
3		Dont like the Crack but is
4	fair	Very good 100% prints
5		
6		83% Trans
None	Ruff -	a fine surface

Re inspected for Cracks
1 = OK
2 = OK
3 marginal Edge Cks -
4 Crack in Music
5 " " "
6 " " "
} This is Bad

281 EK

This is special 17½ hour oven schedule

Reg Var No Sandrac -
but with 7¼% 6/4 6 oz

69 plates 18 Bubbles 51 OK

Varnish - Crazing too much, spotted
Very recommend from run
plates fair

Oven 69 plates 18 bubbles 1 raise -
50 OK of these 19 uneven 31 wrinkled

6 = Transferred on 1412 blanks, Brush 5% LB 2 hrs

Print 6 -

Transfer 6 - 50 OK 1 Ckd Var -

Prints 5 OK

free - bubble
4-1
free OK
free bubble
free OK
free OK

free OK
free rad margin Ckd
4-1 - OK
free bubble
4-1 - OK
free OK

Note the Transfer Saved the big Squeeze out

RO
1
2
3
4
5 |
6 ||||
Now ||||

fine ||||| ||||
good ||

Scratches with finger nail - welds OK -

282 EL

Reg Var no Sandrac,
but with 7% 6/4 60 cc
64 plates 23 bubbles 41 OK

Varnish — Creeper too much —
~~spots sandrac from nozzle~~ —
plates fair

Oven 74 plates 30 Bubs — 44 OK
of which 6 Even 6 Uneven
32 Wrinkled

Transfr 6 to 1412 brushed Blank 5/8 LB 2 hour
Print 6

	Issue	Other side
1 =	OK	parallel on Music Ckd
2 =	Margin Parallel	" Margin Ckd
3 =	OK	OK both slight Pressure
4	Ck parallel it was — transfr	pp + parallel Margin Ckd
5	OK	OK both had low blank at Edge, 1" long

Free-Cooked Cent OK
free - OK
free OK
4-1 - OK
free thin marg ckd
free OK

4-1 - Cooked 1" pulled out
4-1 - 6 and 1/16
free OK
4-1 - OK
4-1 - OK
4-2 - 2 bundles 1/8

RO
1
2
3
4 11 wrinkle
5 1
6 1
Norm

fewer
good

Scratches with finger
Easy -

Burnish Vard plates scratched in bundle here.

283 EM

Reg Var no Sandrac
but with 6 3/4 % 6/4 60cc
68 plates 21 bubbles 1 Raise 460K

Varnish - Creeps too much, spoken
readents from mini-plates fine

Oven 68 plates 21 bubbles (fine)
1 Raised 460K of cotton
8 Even 6 uneven 32 wrinkled

Print - 6

Oneside	other side
1 = Parallel Cks Marg	ditto
2 = "	" ditto to music
3 = " "	ditto -
4 = Red spot Margin Ckd	ditto - pp
5 = parallel cks & in music pp	ditto
6 = " to music	

Transferred 6 - 1 OK 3 (left ck'd) 2 pullouts

Cracks in music ||.
Feed line ck ||||
Poor print |||

~~Wr~~ Not promising

284EN

Reg Var no Sandrac

but with 6½% 6/4 6oco

71 plates 24 Bubbles 47 OK

Varnish — Crazes — fine spokes radiate from rim — plates [illegible]

OVEN 71 plates 24 fine bubbles
47 OK of which 6 Even 3 uneven
38 Lo-crackled —

Transfer

1 = free. Red margin ck'd
2 = 4"-1 — Thin margin'd "
3 = 4"-1 OK
4 4"1 OK
5 free OK
6 = 4" — 1 - bird

4"-2 OK
4" 2 - OK
4"-2 pullout
4" 2 OK
4" 2 - pullout
4" 1 OK

7 OK

Transfers Buffed - 6 2 OK 3 pull outs
1 left cracked —

RO fine
1
2
3 good
4
5
6 ||
None

Can scratch with finger nail —
brittle dry cut.
6/4 small

(1 Record - poor print very bad marqu crack
2 Smooth Horrible Marqu Cracks —

(1 Rec fred line + marqu cks
2 Rec " "

(1 Rec fred line + Marqu Cks not quiet
2 Smooth Marqu cks fair

(1 Rec. only fred line cks
2 Smooth few cks within music line - parallel fair

(1 Rec Marqu + fred line cks
2 Smooth grooves 45° Cracks marqu + in music area 2 places

(1 Rec fred line + very few marqu cks —
2 Smooth marqu cracks + LLL right sample

285 EO

Reg Var no sandrac
but with 6% 6/4 60 cc
72 plates 5 bubbles 67 OK

Varnish = Crazes, too much aparks radiates — Mottle, plates good

Oven 72 plates 5 bubs 1 chipped
66 OK of which 9 Even 17 uneven
40 wrinkled

Transfer

1 = 2-4" Burnt
2 = 2-4" OK
3 = 2-4" PO
4 = 1-4" OK
5 = 1-4" Burnt
6 = 6-3" PO

6-4" (Red Marq cks)
3 4" OK
3-4" PO
3 5" OK
3 4" OK
6 3" OK

6 OK

Transfer Buffed report.
6 transfd 1 OK 5 pull outs

RO
1
2
3
4
5
6
Nom

fine

good

Reg Var
Gets worse as 6/4 demonstrates

1 Rec lots radial clev margin to margin - Very bad
2 Smooth Very long right angle

1 Record Marqu Cr x + right angle cross
2 Smooth right angle longck + groups of 45° angle cross

1 Record bad marqu clev
2 Smooth ditto both opposite sides -

1 Rec fed line + marqu clev -
2 Smooth right angle curved longck - bad marquck

1 Rec fed line + marqu clev well Var flowed over marq
2 Smooth Ill marqu clev + group 45° curved clev out marq

1 Rec pull out & fed big marquck
2 ~~Smooth~~ Rec fed line - 45° group clev. marquck

286 EP

Reg Var No Sandrac
but with 5½% 6/4 6000

73 plates 16 Bubbles 57 OK

Varnish Creeps too much spoiled radiants plates fair

Oven 73 plates 16 bubbles
51 OK of which 11 Even
26 uneven 20 wrinkled

Transfers -

1	Pull outs	Pull outs -
2	Bubs	Bubs -
3	Bubs	PO -
4	OK	PO
5	OK	PO
6	Bubs + PO	Bubs + PO

2 OK off Hand -

free cooled cracked	4-1 — OK
free - OK	free OK
4-1 bend $\frac{1}{16}$	4-2 - bend $\frac{1}{16}$
free bend $\frac{1}{16}$	free OK
4-1 - pull out $\frac{1}{4}$ to blank	free bend - nearly
free - pull out 1/4	4-1 - OK

RO — fine

1
2 — good
3
4
5
6 — warped

Hour

Scratches with finger nail.

287 EQ

Regular Varnish, no sandrac, 8% water
6½% 6/4 1½% Para

60 cc

This means 22% free phenol

70 plates 11 Bubbles 59 OK

Varnish — Creeps Too much, spaken radiate — force bubbles,

Oven 69 plates 11 bubbles 1 uneven 57 OK of coarse)
12 Even 42 uneven 3 wrinkles

6 — Transfer to 1412 blank - brushed 5% - LB Dry 2 hours

6 prints —

	1 side		other side	
	plates	margin	plates	margin
1 =	"	"	"	"
2 =	"	"	"	"
3 =	"	"	"	"
4	"	"	"	"
5	"	"	"	"
6	"	"	"	"

Transfer Inspection

After Buffing – 6 Trans 1 OK 5 pull outs

RO
1
2
3
4
5 Pull outs
6 1
none

Fine

good

Ruff 1

Very soft
Var-Moore
says surfaces so
good Motor bothers

Record Inspection

(1 Record feed line Crazy
(2 Smooth Margin Cracks small –

(1 feed line Cracks
(2 Smooth many bad Margin Line Crazy

(1 Record – big Margin Cracks running in Mem
(2 Smooth mostly also feed line Crazy

(1 Record feed line Crazy
(2 large Margin Line Cracks –

(1 Record feed line Crazy
(2 Smooth Margin Cracks many parallel –

(1 Record Extreme Margin Crazy small –
(2 Smooth larger many Margin Crazy

288ER

Duplicate of 287EQ
Except 6% 6/4 6000

73 plates 10 Bubbles 1 Raised 62 OK

Varnish Crazes fine Mottles
plates OK

Oven – 73 plates 11 Bubbles
62 OK of which 6 Even
38 Uneven 18 wrinkled

Transfers

1 = Edge Nox Bad
2 = Fizz OK
3 = 2 4" OK
4 = 2-4" PO
5 = 2 4" PO
6 = 1 4" OK

Edge Nox OK
2-4" pull out
4-4" OK
4-4" PO
2-4" PO
1-4" OK

6 OK

Transfers Buffed 6 30K 3 Pull outs -

RO fine

1
2 good
3
4
5 1
6 III

6/4 too small -

None IIII III

(1 ~~[illegible]~~ - feed lines
2 plain — marquecks -

(1 — feed lines + marquecks big
2 plain very bad marquecks

(1 - Rec — marquecks
2 plain parallecks in music bad marquecks

(1 Rec feed + bad marquecks
2 plain right angle ck in music bad marquecks

(1 Rec feed lines marqui fair some Extreme edge ck
2 plain few in one spot marquecks not bad -

(1 Rec feed lines few marquecks one a 5" one
2 Rec " + marquecks not good -

289 ES

Reg Var No Sandrac Dup of 287 EQ but with 5 3/4 6/4 good

71 plates 17 bubbles 54 OK

Varnish - Crepis - fine Matter Var OK

Oven 71 plates - 17 bubs - 54 OK
of which 20 Even 8 uneven
26 wrinkled

Transfers

1 = 1 - 4" OK
2 = 1 = 4 OK
3 = 1 - 4" Bad
4 = 1 - 4 OK
5 = 1 - 4" OK
6 = 1 4" OK

1 = 4" OK
3 10 - pullout
1 - 4" Bad
3 - 6" Big Pullout
3 - 4" Bad
2 = 4" OK

7 OK

Transfer - 6 - 6 pull outs

RO Fine
1
2-1-pullout
3 good
4
5 fair
6
None Ruf

Prints not inspected for Pull outs or Birds -

1 = fine crack
2 "
Extreme Edge Chs

X This is due to a long pull out in transfer
when its printed it looks like X

Not promising lots of groups of radial cracks

290 ET

272 To 290 given Hoffman

Reg Var no scandrac Dup of 287 EQ but with 5 1/4 / 6/4 Goco

76 plates 13 Buggers 63 OK

Varnish - Crazes Too much cracks scaled off from rim glass

Oven = 76 plates 13 bubs
Chipped 1 - 62 OK of which
3 Even 13 Uneven 46 Irregular

Transfer

1 =	4" Large Pull	3-5"	Birds
2 =	3-6" Large Pull	2-6"	Birds
3 =	2-4" "	2-4"	Birds
4 =	3-6" Pullout	3 6"	Pullout
5 =	2-6" Birds	2 6"	Pullouts
6 =	Edge Knock Pullouts	Edge Knock	Birds

no OK

Regular Varnish run on the Same Schedule ~~[illegible]~~ 272 To 290 — Safety Sch see other book

230 plates 30 Bubble 3 Cracked 4 — 197 OK but uneven

Moore has chart of position in Oven of each set,

Reg Dipped blank 1 —	free OK	free OK	
1412 blanks	4"-1 — OK	" OK	
RO fine	4-1 — OK	" "	
1	4-2 OK	" "	
2 good	4-1 OK	4-2 OK	
3	free OK	free OK	
4 four	4-1 — OK	free OK	
5	free OK	free OK	
6 Ruf	free OK	free OK	
none	free OK	free OK	
~~[illegible]~~	" "	" "	
all at Edge think	" "	" "	
Can clap it by	" "	" "	
Even transfers +			
Low edge V plate			

Printed on 1412 brushed 5% LB-Dry 2 hours
6 Prints 5 discards Ck'd Marqui 1 Ck'd Marqui Comel
Transfers 8 — 7 OK 1 left Ck'd

Moore will pick out some good plates not chewed up at Edge + do this again

291 E — Reg Oven Schedule

Regular Var — Ordered 8 printed on 1412 Blk Brushed 5% LB Dried 2 hours

Best add 3% Glycerine

Run like the other series

They go Thru Reg Oven Cant get in

Var report Color amber — breaks Thru Center of plate leaving Thin cracks + holes plates poor 35% patched —

99 plates 40 Even OK 37 uneven OK

Oven

99-plates 7 bubbles 2 Ruined 2 Chipped 1 Dust wrinkled 10
Total discards 22 77 OK

12 on Reg blanks
Reg Dip

Re inspection
1 — checks — other side OK
2 OK
3 OK
4 OK
5 OK
6 Margin ck other OK

No Test for surface

1 — Free OK		Free OK
2	" "	" "
3	" "	" "
4	" "	" "
5	" "	" "
6	" "	" "
7	" "	" "
8	" "	" 010 bad
9	" "	8-1 — OK
		6-1 OK
10	" "	free "
11	" "	" "
12	" "	" "

Rems

Print 6 — 1412 blank

RO

1
2
3 1 wrinkle
4 1 —
5 111
6 11
None 1

Free

good

	Free OK.	Right Margin OK
	" OK	free OK
	" OK	" OK
	" OK	8-2 OK
	Free Red Ck Heavy	8-2 Left Ck Red Marg Ck
	Free OK	free OK
	4-1 Red Ck Spot	4-1 OK
	Free OK	free OK
another lot	" OK	4-1 OK
	4-1 — OK	free OK
	free OK	4-1 OK
	free OK	free OK
	free OK	free OK
	free OK	4-1 OK
	free OK	free OK
Thin red Margin 1 blister Ck red	free	free OK

Inspection
1 = 1/8 ad parallel Ck 1" in + 1/8 margin
1 side OK other parallel Ck
1 pull Ck with blurr both sides
" " "

292 E

Reg Oven schedule

Ordered & printed on 1412 blank
Inoculated 20 Vari
Dripped 2 hours

Reg Vari bent cold

5% Glycerine —

Tried out ~~here~~ in 272

Special schedule —

They must go there

Reg oven — too late

Varnish

Creep to outside — blur character there

Center 15% patched

OVEN —

93 plates 6 bubbles 1 Ramped 21 wrinkles
Seconds 29 OK 64

Reg Blanks 12 10 OK 1 pull out 1 Ck'd Vari

Prints ~~Blk~~ 10 10 OK —

293 - 293 to 317 Run on #2 schedule

#2 Schedule

Took out oven at 200° Fr.

10 grams Reg Resin
16 " Alcohol
150 Mlq Para
600 " 6/4
200 " Glycerine

No 1 —— Calliper .016 @ .021

5 mins right on hot plate before a raise occursd + then started by a touch.
good cut semi horny. semi fraible, Think this will transfer ok, but may stick to plates
Cant scratch finger nail after hot plate, could before

1 —
#2 = 5. .020
3 none
4 4- .015
} all stuck to plate

Transfers ok slight jar edge of plate
Came Piece no cracks
press Temp plate 320 Reg Transf. Schedule
8 Min Cool gauge 13 lb on 12" ram
Transfer Cuts Quite Horny
Tough to chip

Transfer - OK no cracks or defects
had hard time to get off

Cuts horny - perhaps shade more than
293

294 E Took out oven at
200° Fah

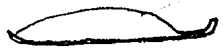
10 grams Reg Resin
16 " Alcohol
150 Mlg Para
600 " 6/4
400 " Glycerine

#1	no bubs	Wavy only in sections
2	4 - 020	all stick to plate
3	2 . 015	
4	5 015	

Put # right on hot plate (about 285) 7 mins it lifted up 7/8 its area - This probably shows it will transfer not stick to plates

Rare -

Curious -



on cooling - Brew in + was thus

Calliper 011 1/2
012

Very tough long chip horny inside, hard outside

295E Took out oven at 200° Fah

10 grams Reg Resin
16 " Alcohol
150 Mlg Para
600 " 6/4
600 " Glycerine

#1 = 3 015"
2 - 6 - 015"
3 - 2 015"
4 - 7 - 015"

only 2 have small area near edge that wavey other 2 have none all black

right on hot plate 402 pm at 406 side blister started 3/8 - while little warm underrun + got it off whole at 410 pm 2 blisters -

Cuts horny inside hard but OK outside

Calliper 013½ @ 016½ 019.

Transferred 295 came off easy OK

Can't scratch with finger nail - sticks 1/4" to blank little better than 296 - there is guard for undipped 1412

Transfer with bird + hard to get off shows increase in glycerine delays final hardening would have to go to 235° deg for 3 hours or longer in transfer press —

600 glycerine is best in this Combination - Perhaps 296 would be a lighter veneer of hardened more —

324° Fahr platten of transfer press i Steam 107

Cuts very horny - its compressing it works —

295 is Not near as horny but is horny + gives Curled up Chip tough —

Cantscratch with finger nail

Sticks ¼ chip out - fair for undipped blank 1412 —

Pressed hot little Wavy but is brittle

Jackout Oven at 200° Fahr

296 E 293-4-5-6 Darked

none have even Calliper

10 grms Reg Resin
16 " Alcohol
150 Milg Para
600 " 6/4
1 gram glycerine

#1 — 1 015
2 — none
3 — 2 015
4 2 010

} sectionally Wavy

Put right on hot plate 450 pm - 505

no blisters - Calliper 017½ @ 016-016

This is different from 293-4-5

Its Cuts Very horny inside, only up to hard rubbery stage - hard cut outside - Dont think it will transfer as it will be hard to get off or stick = This should probably be carried to 235 for 2 or 3 hours

Transferd - on hard had drop on Cement floor 2 feet - 1 bird —

Welds 5/16 chip —

297E

10 grams Reg Resin
16 " Alcohol
200 Milg Para
600 " 6/4
200 " glycerine

#1 — 2 010
2 — 3 1-030 2 010
3 — 1 of 010
4 5 — 015" at Edge
} Sectional wrinkles

Sectional wrinkles

Put on hot plate
5.50 pm at 611 4 found it 3/4 lifted
got it off whole while hot.

Dropped 2 ft on Concrete small
angle crack bend but nothing
pulled out — not Condensed
Enough

Horny tough chip —
Cant scratch with finger nail
Wed for 1/4" chip

298 E

10 grms Reg Resin
16 " Alcohol
200 Milg Para
600 " 6/4
400 " Glycerine

#1 — 2 015
2 — 2 010
3 2 - 010
4 none

2 sectional wrinkles 2 normal
on hot 6.19 — 6.24 pm blistered Edge

Transfered - Loose - birds ie Checks at angles - no actual pull out, not Condensed hard Enough

Very Tough horny Chip

Cut accidental with finger nail
got off plate very hot,
Calliper 015½ 013 — 15½

299 E

10 grms Reg Resin
16 " alcohol
200 Milg Para
600 " 6/4
600 " glycerine

#1 — 4 — 015
2 4 — 010
3 3 micro
4 1 — 015

All sectional wrinkles

on hot 6.19 — 624pm blister
at Edge
got it off plate very hot —
Collegen — 013 — 019 — 012

Transferred Very tough horny
Cut — Came off with Knock on
Cement lable Transfer OK
Cant scratch finger nail

Considering the 1412 is not dipped
this is a very good weld

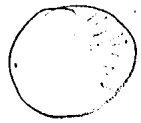
Good horny tough chip Cut.

300 E

10 grams Reg Resin
16 " Alcohol
200 Milg Para
600 " 6/4
1 gram of glycerine

#1 — 7 — 015
2 — 1 020
3 — 5 015
4 — 6 — 015

All sectional wrinkles
1 very little —



on hot plate 6.19 - 6.24 - Entire
veneer blistered up Venee like
got it off whole when very hot
Coolipers 017 @ 015 015

Cuts horny both Edges —

Transfer Came free Easy
Cant Scratch finger nail — Transfer OK
Welds 1/8 to 3/16 fair —

After Extra schedule up to 235

Transfer Cut hard Easy release
Weld ¼" pieces –

301E

10 grms Reg Resin
16 " Alcohol
100 mlg Para
600 " 6/4
200 " Glycerin

#1 –	5	015		Sectional wrinkles 1 more
2	3	015		mostly near Edge
3	2	020		
4	7	015		

1 = on hot plate 9 pm 9.01, Blister
Shows effect smale pain
These would not stick in transferring
I think

Transfer Came off Easy
Cut scratch fingers nail
Cut some horny
After Extra schedule to 235
Came off easy OK

After 235° Fahr Extra
Schedule Transfer
Cuts semi hard - Easy to pat off
Used 5/16 piece

302 E

10 grms Reg Resin -
16 " Alcohol
100 mlg Para
600 " 6/4
400 " Glycerine

#1	3	.015		Sectional wrinkles
2	7	.015		1 none
3	5	.015	all 2 Dyn	
4	7	.020	nearly all 2 dyn	

1 = on hot plate 9 grm - 9.01 - blister
shows effect small pore
This would not stick in transfer
Transfer
Came off on dropping 4" on Cement Table
Is OK
Only little horny ~~spot~~
Cant scratch finger nail
After Extra schedule to 235
OK 4" drop

after Extra 235° Fahr Schedule

Transfer – loose,
Weld 5/16 chip – Not hard + horny
very good – Tough chip –

303 E

10 grms Reg Resin
16 " Alcohol
100 Milg Para
600 " 6/4
600 " glycerine

#1	6	.025	Sectional wrinkles
2	5	.015	
3	1	.015	
4	3	.015	

1 = on hot plate 9 min 90 pounds
shows effects smack para
This wanted not stick to plates in
transferring & chunk –

Transfer Free release small
jar

Cuts quite horny – seems to be
two .010 pull outs
Welds 1/4 cracks + less

after Extra 235° fake [illegible]
5/16 chip for curled, Loose from
plate like 303 —
Cut hard horny, tough chip
very good —

304 E

10 grms Reg Resin
16 " Alcohol
100 Mlg Para
600 " 6/4
1 gram glycerine

#1 —	$\frac{1}{16}$ – $\frac{1}{32}$	2-020		
2 —	1 030	4 015	Sectional corrugation	
3 —	3 010	—	1 none	
4	3 025	6-015		

1 = on hot plate 9 pm – 9 01 pm Blistered
shows effect of more para
This would not stick to plates in
transfer Lithunk

Transfer = 304 was loose free
release
Little horny Cut chip Curls
tough

Weeds 1/4 to 1/8 circle

after
Schedule 235° fahr

Transfer

Brake blank before comes off

305 E

10 grms Reg Resin
16 " alcohol
150 Milg Para
550 " 6/4
200 " glycerine

#1 —	8 —	2 of 015 + 3 micro	no wrinkles
2 —	16	of 020	Very small sectional wkg
3	1 —	020 6 of 01	no wrinkles
4	10	020	no wrinkles

On hotplate 905 per 906 blistered

Transfer Pull outs bad brake
Var also pulled off some of the blank

Dont cut very horny
Dont would take off by
under running
not muff 6/4 for
200 final

1/3 of cohesh
schedule of
Cantabrach finger nail

After 235° Falsw Schedule

Breaks blank before it will come off

306 E

10 grms Reg Resin
16 " Alcohol
150 Mlg Para
550 " 6/4
400 " glycerine

#1	— 22	— 015"		Sectnl wrinkles
2	— 5	015"	1 -	" "
3	— 10	015"		no wrinkles
4	— 7	— 015"		no wrinkles

on hot plate 905 pm 907 blistered

Transfer = pulls + breaks
Varnish pulls up blank

Cuts brittle horny

Not Enough 6/4 for final temp of 200.

Cant scratch with finger nail

After Extra schedule 235° Fahr
Transfer

Hard yet soft bag pulls out
no —

307 E

10 grms Reg Resin
16 " Alcohol
150 Milg Para
550 " 6/4
600 " Glycerine

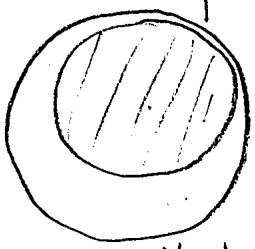
1 —	4	015	Sectional wrinkles
2 —	12	010	"
3	16	015	"
4	4	015	"

On hot plate 905 906 Blue Band

Transfers sticks bad pulls out 1/2 of the Varnish — pulls up blank
Very horny not Enough 6/4 for this schedule — must go to 235 & hold longer at that point

NOTE

puff up like this on hot plate



+ when cool contracts to almost flat

say from 1/8 high at X to 005 or nearly flat –

This shows a big shrinkage or Elasticity + a return practically an Elastic shrinkage + also a deformation or permanent shrinkage

308E

10 grms Rag Resin
16 " Alcohol
150 Milg Para
550 " 6/4
1 gram glycerine

1	2	01	sectional commutator
2	2	01	"
3	9	01	"
4	4	015	"

On hot plate 905 pm
10 12 blistered but had to touch it with point pencil –

Transfer – Stuck 10" Drop on Cement – pulled out piece + took some blank with it not muff 6/4 for the schedule –
After 235° Take Schedule –
free release Red Center –
NG

309F

10 grms Reg Resin
16 " Alcohol
150 Milg Para
500 " 6/4
200 " gCycerine

Note treated must rerun to B35 for 3 hours

310 E

10 grms Reg Resin
16 " Alcohol
150 Milg Para
500 " 6/4
400 " glycerin

Not tested must run to 235 for 3 hours

311 E

10 grms Reg Resin
16 " Alcohol
150 Milg para
500 " 6/4
600 " Glycerine

Not tested must run to 235
for 3 hours

312 E

10 grms Reg Resin
16 " Alcohol
150 Milg Para
500 " 6/4
1 gram glycerine

Not tested must run to 235°
for 3 hours

313-15-16-17 -

Evidently higher the Condensation by more 6/4 or higher furnace heat the worse the weld -

After 235° Fahr Extra schedule
Loose of the plate
Hard horny Cut
3/4 weld - Take some of blank with it in center gradually less towards Center, but on sides no separate there

313 E

10 grms Reg Resin
16 " Alcohol
150 Mlg Para
650 " 6/4
200 " glycerine

1 =	9 -	015	Sectional wrinkles
2	6 -	020	wrinkles nearly all over
3	7	025	" "
4	2	1-030 - 1 020	Wrinkles all over

Hot Plate 1107 - 1109 Touched Center & it blistered - didnt remove - Contracted back nearly flat,

Transfer - Free release, a jar
Hard Cut OK only slight horny
Transfer OK Weld NG 1/2" chipes
pulls a little of blank away

314 ~~F~~

10 grams Reg Resin
16 " alcohol
150 Mlg Para
650 " 6/4
200 " glycerine

After Extra 235° Schedule -

Loose on the plate.

Hard horny ~~plate~~ Cut.

No weld 1/2 piece

takes shade of blank

part on 1 left on hot plate

Broke 66 - mayprem

Calliper 017½ 017 016

315 F

10 grms Reg Resin
16 " Alcohol
150 mlg Para
650 " 6/4
400 " glycerin

1 =	2 —	015	3/4 wrinkled
2	1	020	3/4 "
3	3	micro	3/4 "
4	none		wrinkled all over

Hot plate 1107 1109 Touched

Center ~~w~~ it blistered.

Didn't remove it contracted back nearly flat.

Transfer - Came off hard -

Dropped it 15" on Cement table,

Transfer OK

Hard cut shade horny Cut OK

Weld rg 1/2" chips

pulls stone of blank away - black

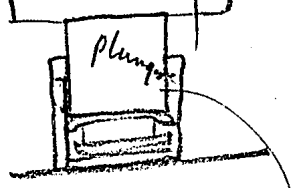
Extra schedule 235-
Transfer
Hard, semi horny
Used 1/2 Veneer come off
none of blank

Note

Every transfer seems to be free release on one side the other requires jar

This is probably due to plunger side being Colder

also Mould wrong



Transfer - One inch drop on Cement free release -

Will fix this -

Look out for Mould holder + press up stairs -

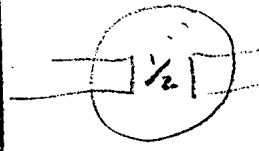
316 F

10 grms Reg Resin
16 " Alcohol
150 Milg Para
650 " 6/4
600 " glycerine

1 =	1 —	020	Wrinkled all over
2	3 —	020	"
3	1	015	"
4	4	015	"

Transfer free release

on hot plate 1107 1108 blank
Start Cooler Didn't remove veneer it Contracted back nearly flat



Brake 35 - its one of the best + probably unused

Calliper - 016 016 016

Brake wrong piece
Weld 1/4 to 3/4

NOTE

The Contraction is so great that it looks as if in Transferring & Printing we should use Lowest temp possible in press if we cant get the blank to Contract in same amount.

This has got to be Experimented on —

Perhaps Wrinkled was hot Oil instead steam,

Think 250 is high enough

After Extra 235° Fahr Schedule

Transfer

Loose on plate, horny Tough Cut

no weld 1/2 - none of blanks Comes off

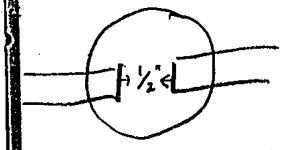
317E

10 grms Reg Resin
16 " Alcohol
150 milg Para
650 " 6/4
1 gram glycerum

1 =	5	015	wrinkled all over
2	2	nuero	"
3	1	025	"
4	8	020	3/4 wrinkled

On hot plate 1107 1109 Touched & it blistered

Dirdut remove veneer it Contracted back nearly flat.



Brake at 73

Calliper 016½ -020 017

Transfer - free release & OK

Welds nearly 1/2"

The blanks being green bowed out

~~////~~ allowed good print

This probably would not have occured if they had previously been thru transfer press

This proves that a fully hardened Veneer will not weld to a dipped blank it must not be fully hardened by semi condensed This shuts out this process -

Only Sesame etc to loosen Veneer on plate in Oven will work,

318 E

Reg Varnish plates brought up (Had been thru Reg Oven) in 6 hours to 280° Fahr + Separated from the plate -

Placed Veneers directly on Record Moulds after returning up - No transfers

Prints OK no cracks

4 Fair ||
5 Good ||
6
Now ||||

No weld at all Comes off 2" pieces -

This process is fine for printing but dont think can weld it

319 Transfers 40K

Top			Bottom		
1 — Loose		OK	20 — 3 —		PO
10 — ~~Loose~~		PO	20 6 —		PO
20 — 2 —		PO	Loose		OK
10	2	PO	10	2	OK
1	/	OK	20	3	PO
1	/	OK	20	5	PO
3	/	PO	20	3	PO
5	/	PO	20	2	OK
1	/	PO	20	4	OK
10	2	PO	20	3	PO
20 —	3	PO	20	3	PO
10 —	1	OK	20	3 —	PO
171			660		

Note first Hard blank 24 faces
16 OK 8 pull outs
Reg Blank 24 faces 8 OK 16 Pull outs
Just like Op's or Up
Hard B 4 Loose
Reg B N Loose
1
320

6 Prints all bad Cracked - Dip Var not condensed flows thru cracks - Picked for worst wrinkles

RO 1 - big wrinkles Very Conspicuous
6 — III Fine IIII Very fine IIII 1
No RO IIII III

Only one face had poor print

Weld Var must be got rubbery in Transfer or not be a Var - think it starts Cracks

This is Record of 320
not 319

319 Reg Prints 6 — Reg Cracks no poor print all OK but 2 surfaces — 6 had cracks that originally were in transfers

319E RO Fine IIII1 These Cracks come in good IIII1 some time after transfer
no V surfaces

Like - 116 Varnish - Resin only no face
Ghanal 5½% 6/4
1½% Para No Sandrac or Megrosin
2% glycerine —
flow 60 cc each plate

Varnish

Works good plates Even - no break aways but surface of varnish looks like fresh scales

Oven

75 plates — Bubbles 3 — chipped 1
Wrinkled 33 Discards Total 38
OK 37

(wrinkle RO) Transferred on Regular blanks
Reg Dip —

Prints 4 — IIII Fine IIII Fine IIII Extra fine IIII 6 Ckd all discard 9 pull out 3 left ckd
61 none IIII1 Hard blanks 412

320 E

Transfers

303 Inch drop
Hand blank
831 inch drop on
Reg blank to
get off
—

Top	Bottom
4" 1-OK	20" 2-PO
10 1 OK	10 1 PO
20-2 OK	10 1 OK
4-1-OK	15 1 PO
4-1 OK	15 1 PO
4-1-OK	15 1 OK
4-1-OK	4 1 OK
4-1 OK	20 2 PO
10-2-PO	Loose OK
Loose OK	Loose OK
10-2-OK	Loose OK
10-2 PO	10-2-PO
10 OK	6 OK
2 POur	6
134	134

Top Locon

Big wrinkles
Very complicated

Prints — Used most wrinkled plates
Printed. 6 —

RO-1- Fine
1
2
3
4
5
6
Done

good

These prints are all Cracked but only 1 poor print but the dup Van came Home clear + made bad-dull crinkled surface — it was not Condemned in transferring

Many big wrinkles shows
Just are parallel with Marvic
Just a few scattered-risky rocking
it bad

This is ~~to~~ 319 page are OK

Hoffman

320 E

Dup of 319 E
But 4% of glycerin

floco 60 cc

Van works fine — Even — dont
Creep —

— OVEN

67 plates 1 Bubble 59 wrinkled
OK 7 =

1412 blanks — Brushed 5% B Van
Dried 2 hours

Wrinkle Experiments

1412 - Buffed
6 - 6 Pullouts -
RO
1
2
3
4
5
6
none

Not enough
6/4

Top -	Bottom
4" 1 - OK	20 - 3 - PO
2 3 OK -	Loose OK
Loose Small Bird	4 - 1 - PO
Loose "	Loose
4" 1 bad	20 - 2 - OK
Loose OK	20 - 2 PO -
Loose OK	4 - 1 - PO
15 - 2 Slight PO	15 2 - PO
10 - 2 - PO	10 2 OK
8 - 1 - PO	8 - 1 - PO
Loose OK	4 - 1 - PO
20 - 2 PO	20 - 2 PO

Will print as many as possible

24 surfaces 8 OK 16 Pullouts

1412 - Transfer best Edges
Corrected fine -

1 = 4 = 6" 1 small bird	8 10" OK
2 = 2 = 4" OK	4 10" PO
3 = 2 - 4" OK	4 - 10" PO
4 = 2 - 4" Small bird	2 6" OK
5 = 2 - 4" OK	4 10" PO
6 = 1 - 4 - PO	4 10 PO
Very little flow to Edges	5 OK

321 E Hoffman

Dup of 319 E
But 8% of glycerine -

flow 60 cc

Even + OK

Varnish

Oven

70 plates Rubbles 30 saved 8
Wrinkled 15 - 17 OK

Note
Transferred on 1412 blank -
picked out plates having most wrinkles - 5% dampened Var
Brushed dried 2 hours

Inspection of Prints
(1 Rec big margin parallel
(2 Smooth many big margin crosses
(1 Record bad line margin cross
(2 Smooth 45° angle cross Music part
(1 Record bad Margin cross
(2 Smooth Margin + Music cks -

(1 Record bad margin cks
(2 Smooth bad Margin cks
(1 Record Very bad cks. Music + Margin
(2 Bad margin cks -
(1 Record only Margin cks
(2 Record only " "

Note =

with glycerin 5% notice
on hot plate 1 hr

1140 on gauge on stick

20 min at 120° Fahr
15 " 130 "
1225 went to 175, big bubbles appear 1/4 size
in the thick reg one & fine bubbles
in very thin one, picked the thick one
went clear – put back at 1230 to
142° Fahr

at 1245 thin one started Condensing at
160° at 1240 pm Condensing started
but just at thin present in thick
one heavy fine bubbles appear

The thick one 164° started showing
fine bubbles – at 1255 started
Rubbery – 164° Fahr 1 pm thick
gone Rubbery

Danger point 142 to 165 @ 168

with glycerin – 1.50 pm quite numerous
bubbles on thick &

Thinner holes more Condensing & Cooler

Schedule for Glycerine Varnish

30	min	to	100
30	"		115
30	"		120
30	"		125
40	"		130
40	"		135
40	"		140
40	"		145
40	"		150
50	"		155
60	"		160
60	"		165
50	"		170
40	"		175
40	"		180
30	"		185
30	"		190
30	"		195
30	"		200

Not

at 2 pm 168 –
210 196 no change
230 196
235 204
237 off – Cool

Very great dif between thick & thin Var plate. Thin one well Condensed which thick one is right & has advanced only a little,

Transfered them to Reg schedule –
small 1" blank
Chamfered Edges

Hard get off blank
thin one bend

Thin one shows more worked to OK –
shows it dont Condense in thin pieces

1 each to be taken out for test

3226

Transfer 12 Regular blanks which has been sprayed with Varnish & dried 2 hours

Use Reg plates —

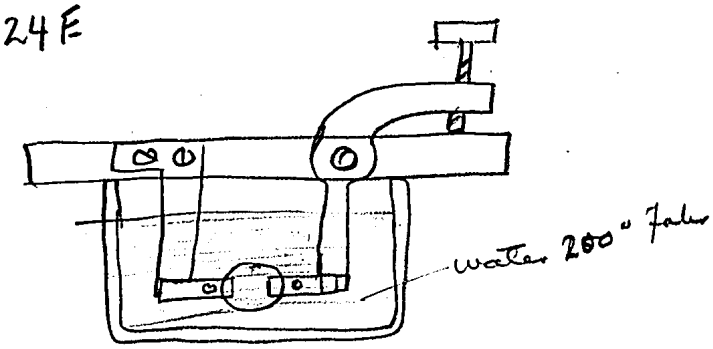
Print 6 — to hear surfaces —

323 E

Gwenkoom

1412 Blanks – Sprayed
dried 2 hours put in
lathe with a feed
& feed polishing point
from Center out one
side only ~~Ex~~ 50 threads
to mch or thread out
Transfer 6 –
Print 6 –

324 E



Two glycerine Disc

Condensed on hot plate to 190 @200 in 2½ hours transfer by Fred, not condensed enough pulled out afterwards placed the thick one face down on plate 3 hours found it fully condensed & welded tight to 1412 disc —

Evidently after the transfer & longer its kept in transfer prevent better the crystal

New point

PHENOMENON

325E

Operation

Ott make up Bottle

30 grams Rag Resin
48 " Alcohol
450 Milg Para
1500 " 6/4
1500 " glycerine —

No 3 Schedule

20 min to 115
20 " 125
30 " 130
60 " 140
100 " 150 dangerous for bubbles
80 " 155 with glycerine 5%
60 " 160 + 6/4 6% - 150 para
40 " 165
40 " 170
30 " 175
30 " 180
30 " 185
30 " 195
30 " 200
Hold at 200 for 30 min —

Additional Schedule X

60 minutes to 200
30 " 210
40 " 220
40 " 225
40 " 230
40 " 235
Hold at 235 30 minutes Cool

Latest Schedule No 2 from Experiments

thin & thick glycerine Disc on Heat plate
from Room Temp 2 hours drying

20 min to 115
30 " 125
30 " 135
30 " 140
30 " 145
60 " 150
80 " 155
90 " 160
100 " 165
80 " 170
60 " 175
50 " 180
40 " 185
30 " 190
30 " 195
20 " 200
780 min 13 Hours

No 2 Schedule

292 to 317

Run on this Schedule

2 Schedule

Dup of 326 E made right

Duplicated it.
Worked the same but finally hardened

Dried in air 15 min
put on Hot plate gauge

130° Fahr	11.40.	OK	no bubbles at all
156 "	1142	"	
168 "	1146	"	
174 "	11.50	"	
184 "	12 Midnight	"	

Its soft liquid varnish here no signs of thickening or condensing
198° Fahr 1210 Big bubbles appear suddenly. when I cover it.
198 at 1215 Suddenly went rubbery - left it all night at about 170 but it is not hard Enough I think for use

This is rapid condensation

I add 300 more Mlg
see 328 E

326 E Special

I put 8 discs poured from a Varnish

30 grm Reg Resin
48 " Alcohol
1500 Mlg 6/4
1500 " glycerin
450 " Para -

Dried in air 4¼ hours by mistake put on gauge div inch stick right over hot plate
On at 825 pm - went right up to 15
130° Fahr at 9.20 140° Fahr
at 9.50 pm 158 - not rubbery
at 1005 162° Fahr not rubbery

As they are red the Para has probably been left out
1020 pm -

Its soft glycerin make it like putty
6/4 left out by mistake
am Duplicating it -
No bubbles - So its the action of 6/4 gives Bubbles

RO	fine ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~
1	
2 |||	good ~~||||~~ |||
3	
4			
5 ~~||||~~ ||	fair |||
6 ~~||||~~ |||||	Rough |||
None ||||	

This dont promise good, evidently not homogeneous —

327 E

Calliper 1412 Blanks & Pick out 12 that are uneven in Calliper — Take these put against a face plate & face off true with a Diamond tool fine feed & spray & Transfer Print 6 or 8 to get a surface test.

Originally Calliped from 014 to 027 out
Blanks after Turning brushed 5% LB — 2 hours
Reg Van used. 13 Transfd 12 ok 1 Crooked
Center.
Print 12 — 50K 7 Ckd Margin of which 4 are Conical

3 10 pm	178	no extra bubbles have appeared
3.12 "	180	ok Since Rubber Condensation at 145°
3 15	200	one ¼ round bubble appeared at Edge
3.17	208	on No 3 — no more bubs appeared
3 25	208	on 1-2-4+5 since 145°
4	224	only 3 left all others OK no further bubbles have appeared

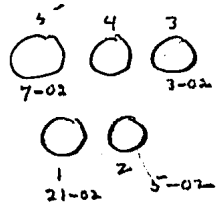
Been on gauze since 4 pm now 915 pm — about 7 hours Total
Cuts horny but hard think it OK —

328 E

This is 2nd Dup of 326 E with 300 Mlg 6/4 more added making 600 Mlg To 10 grms Resin or 6%

Air drying 12 15 put on gauze ½" above hot plate at 1,50 pm —

1,28°	7 abv —		
1 40	"	155 pm	ok —
1 42	"	2 00 "	1 big bubs others OK
1 44	"	2.07	
1 38	"	2 13	



No 1 went rubbery		2.07 —	144°
2	"	2 13	138
3 + 5	"	2 48	142
4	"	3.02 —	145

Started up to see if more bubbles appeared

305	160
306	170
308	172

See left hand page

Phenomenon

When a Veneer becomes Rubbery the mottled + wrinkles appear, with the rubbery condensation not before = yes they do, they appear in drying on the rack

When plates are drying the bottom or face of plates shows channels all connected together formed ostensibly by action of Para - these net work is dark =

Phenomenon after Rubbery stale Unwrote no more bubbles appear

Phenomenon

328 E

In absence of much draught ordinary Conditions moves + gives holes + bare spots but in ½ hour comes even - But if there is big few draught dont do it Works fine Thus with glycerine Van

329 E

to See if Glycerine Changes —
pour 3 discs
+ also put some in Butter dishes

10 glycerine
10 water
3 grams 6/4

There is no doubt but what the glycerine is evaporating ½ gone 6 hours in butter dish

Boiling Point is 540° Fahr yet it Evaporates slowly at 255° Fahr

330E

100 grms glycerine
10 " Water
3 " 6/4 para
500 " para

at 9.45 The ~~Plate~~ Para is left considerable of the glycerine Evaporated —

both on butter dish at 2.52 pm —

330 E

No 3

13 Hour Schedule
+ Extra to 230

10 gram Reg Resin
16 " Alcohol
600 milg 6/4
no para
200 " glycerin

Notice of wrinkles

1 =	no Gubs		wrinkles extreme Edge	all light. OK
2 =	"	4	015	" wrinkles " Edge
3	4	3	020	wrinkles at Edge
4	3			wrinkles at Edge
	7			

Transferred 1 off away 2" drop Cement Pull out
only little hardened Cross between Condensite + Resin
brittle soft not tough horny - Can't scratch
finger nail no well can't strip off half-blank
don't stick to it

PHENOMENON

All the worms, wrinkles etc are on inner face of Veneer use 331- wrinkles appear by touching surface of Varnish they are not affected showing they are at the face of plate in contact with the Varnish - on will not be on face of Var Plate + will appear on face of the Record Not sure of this Its the Opposite for big wrinkles

331 E

Done 3 Schedule + Extra to 234

10 grms Reg Resin
16 " Alcohol
600 mlg 6/4
600 " glycerine
no pera

1 = 14	tubs	020	Bad	wrinkles near edge
2 = 7	"	020	"	no "wrinkles"
3 = 8	"	015	"	No wrinkles
4 = 7	"	015	"	
36				

Big Press

Transfer came off 1/2 dog drops 6" pull out Seems condensed, not horny rough but soft brittle Can't scratch finger nail Notweld can get off 1/2 the Veneer Dont take blank with it

332 E

No 3 Schedule
+ Extra Sch to 235

10 grams Reg Resin
16 " Alcohol
600 mlg 6/4
1 gram Glycerine
no parea

1 =	10 bubs	025	Edge wrinkles not bad	not very good on decount bubs
2 =	1 "	015	no wrinkles	
3 =	3 "	015	wrinkles at Edge	
4 =	4 "	020	" "	
	18			

Transfer Bag Press

Loose = Weld fair - pulls off some of the blank ¼" chips
OK = Cuts brittle not horny - to a cross between Resin & Condensite - Cant Scratch with finger nail
Curious that this should work as good & be loose
Light red color on plate - Thinit it is Loose is probably due to Excess of glycerine

333E

10 grms Red Resin –
16 " Alcohol
600 mlg Gl
600 " glycerine saturated with
Lime –
100 " Para –

Cancelled

334 E

~~10 grams Reg Resin~~
~~16 " Alcohol~~
~~600 Mlg 6/4~~
~~600 " Glycerine saturated~~
~~with Barytа (BaO)~~
~~100 Mlg Paris.~~

Cancelled

335 E

No 3 deleted + Extra 335

10 grams Reg Resin
14 " Alcohol
600 Mlg 6/4
600 " Glycerine
100 " Para

1 = 5 Bubs. 020 {Wrinkled all over - bad
2 = 5 " 020 " 1/2 the area bad
3 = Micros {Loose on plate
4 = 3 bubs 010 - Micros } 1/2 area wrinkles -
13

Big Press Transfer - Loose + OK Cant scratch finger nail - Cuts a little horny not as brittle cut as 330 - 331 = shows action of Para 1/4 To 5/16 chip weld Takes none of the blank, Dark red on plate due to para condensing it more Note def between 332 + 335 = no para + para

336 = C

No 3 Schedule
& Extras 235

10 grams - Reg Resin
14 " alcohol
600 Milg 6/4
50 " Para
400 " Glycerine

1 = 8 buts	025		wrinkled all over bad
2 = 3 "	$\frac{1}{8}$ + 020		1/2 area wrinkled "
3 = 5 "	025		wrinkled all over "
4 = 4 "	025		" " " "
20			

Big press - Stuck hard - pulled whole face of the blank off 2 or 3 drops on Cement, has a soft partially horny Cut - can't Cut with finger nail & make a crack, brittle Cut chips not tough enough to prevent brittle cut. Chips out

337 E

#3 Select
+ 235 Extras

10 grms Reg. Fixer
14 " Alcohol
600 Mlq 6/4
50 " Pearce
600 " Glycerine -

1 =	2	bubs	015	Wrinkled 1/2 area bad
2 =	2	"	015	" 3/4 " "
3 =	3	"	015	" whole "
4 =	3	"	020	" Allover very bad
	10			

Big ~~pieces~~ Transfer — stuck very hard many times dropped on Cement - the Pull out Cants scratch with finger nail, Comes away from blank 1/2 Clean no wrld, horny but Edge Cut chips out - face cut horny + fairly Tough

338 E

#3 scheduled
Extra Sch To 234

10 grms Reg Resin
→ 14 " Alcohol
600 Methy 6/4
25 " Para
600 " Glycerin

1 =	7 =	025	wrinkled allover - bad
2 =	5	015	" 1/2 fair
3 =	5	025	" allover bad
4 =	7	025	" " Very bad
	24		

Big Pieces Transfer - Comes off very hard 6" 6 times to OK - brittle Cut Condensile - Resin Cut No weld comes off clean - Edge cut very brittle if beg chips allowed - Cut scratch fingernail

339E

#3 Schedule of Exhibits 5 to 2-35

10 grams Reg Resin
14 " alcohol
600 Milg 6/4
10 " Para
600 " glycerine —

1 = 1 — 025	wrinkled 8/10 — very bad
2 = 9 — 025	" allover = "
3 - 3 — 020	" " "
4 = 7 — 020	" " "
20	

Reg Press Transfer - Loose OK - fairly horney
not very brittle - Edge cut very brittle, chips out
very easy when attempt made to cut a chip
no weld Comes of 1/4 @ 5/16 clean
Cant scratch with finger nail. but close to it

340 E

#3 Schedule of Et Sol to 2 35

10 grams Reg Resin
14 " Alcohol
600 Mlg 6/4
100 " Aniline Oil -
600 " glycerine

1 — 12 — 020	wrinkled 3/4	bad
2 = 7 020	" 1/2	"
3 = 4 — 020	" 1/2	"
4 = 2 — 010	Raised 8/10th	no wrinkles
25		

Brg Press - Transfer Loose — Can just scratch by fingernail only a shade, Edge cut hard retique out of attempt very limited cut — 3/4 weld, corner off nearly free of blank face - Dry ~~cam~~ Cut on flat, brittle

341E

#3 schedule

see of it dissolves in alcohol - + Extra Sclyte 2.35

10 grams Reg Resin
14 " alcohol
600 Mlg 6/4
150 " Anilin Hydrochloride
600 " Glycerine -

1 = 3 bals .020 } 1/2 wrinkled ring bad
2 = 3 " .010 } " " "
3 = 1 " .020 } " " "
4 = 2 .010 } free
9

Big Press Transfer — Loose — no horny cuts like Resin - Cant scratch with finger nail = Edge cut extremely brittle Can only cut finest chip without chipping out.

342 E #3 schedule + Extra Sched To 234

10 gram Reg Resin
14 " alcohol
600 Mlq 6/4
100 " Benzendin (Base)
600 " of Cyclohexane

1 = 3 tubes 025	8/10 wrinkled	Very Bad
2 = Blistered	+ Cracked	none
3 = tubes 3 - 010	wrinkled 1/3	Bad
4 — Raised		
6		

Transfer - Slucks 6 6" drops - Re[illegible]
Accated [illegible] Come off
~~Broke blank~~
[illegible] - Very Thin
Ve[illegible] pound

po 3 sch
+ Et bra Ech ty
237

343 E

10 grams Reg Resin -
→ 14 " Alcohol
600 Mlg 6/4
50 " Benzidin Base
600 " Glycerine -

1 = 2 - 020	1/3 wkd	bad
2 = 4 - 025	1/4 "	"
3 = 2 - 020	1/4 "	"
4 none	1/3 wkd	"
8		

Transfer stick 2 6" drops Red Edge
scratch with finger nail - whole veneer
Comes off - no weld - Its Yellow.
Dry heavy Cut on face - Edge, hard + extremely
brittle, chips out - Veneer Very Thin -

344 E

#3 Schedule + Ext Loss Sch 6 2 79

10 grams Reg Resin -
→ 14 " Alcohol
600 Methy 6/4
100 " Ortho-Toluidin
600 " Glycerin

1 = 2	015	wrinkled 3/4	6 mo
2 = 4	015	" 1/3	"
3 = 5	010	No wrinkles	
14			

Transfer - Dlink Very hard - 5 drops 20"
Cracked, Dry fracture - Can scratch with finger nail - Edge cut can get fine chip but generally friable -

RO	fair
1	
2	good
3	
4	
5	
6	
None	

Surfaces not so good apparantly—

345-F

Req Van — Brushed Blank.

Make 24 Blanks 1412

Change blank schedule from

1000 lbs pressure to

500 lbs — Caliper blank within .009

Req Print + Transfer schedule

Transfer 12

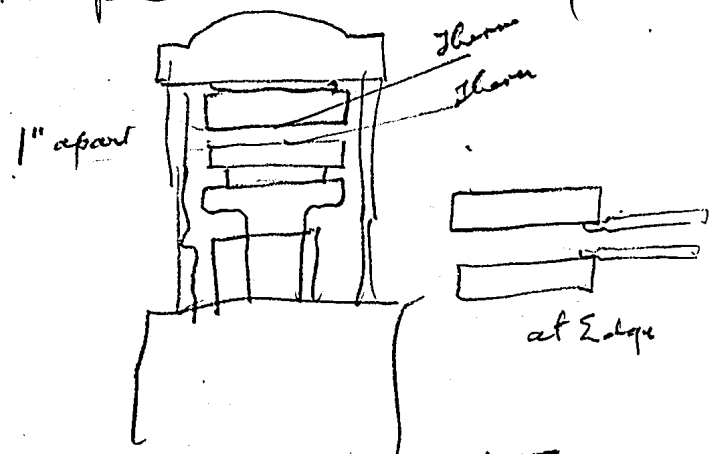
Print 12

Brushed blank —

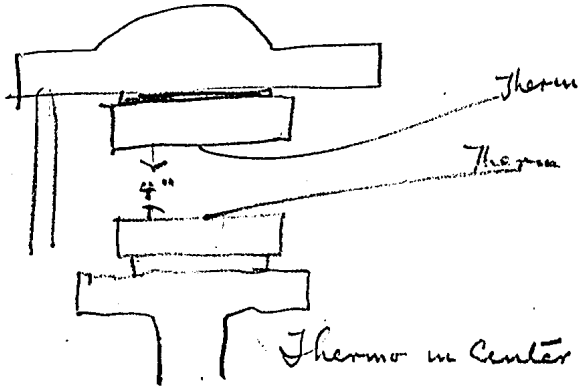
Transferred 12 — 100% 2 pull outs.

12 prints — 7 OK 5 poor prints —

Experiments on Transfer Press in Lab
working it just as we do on Reg
Transfer Schedule



	Top	bottom
Start 2 pm –		
2.3	170	160
2.4	184	182
2.5	206	210
2.6	224	230
2.07	230	242
2.08	240	254
2.09	242	258
2.10	240	262
2.11	240	262
2.12.5	241	264
2.16	248	266
2.19	246	264 –



100 lbs Steam

	Top	Bottom
	300	292
	300	294
	300	292
	300	294
Cooling		
3.05 pm	302	296
3.06 "	268	254
3.07	194	188
3.08	154	156
3.09	118	120
3.10	90	94

Average 92

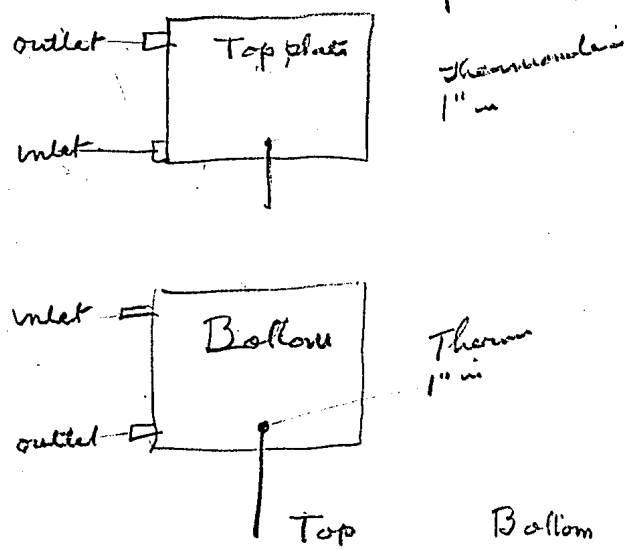
Rego schedule 3 or 4 blocks off Transfer

	Top	Bottom
3 10 pm	94	102
312	150	152
313	198	212
314	228	240
3 15 pm	244	256
3 16	252	264
3 17	256	266
3 18	258	268
3 19	260	268
3.20	264	270
3 21	274	282
3 22	285	287
3 23	294	290
3 24	295	291
3 25	296	290
3 26	297	295

16 Minutes

Press Expmts Condensation

Cooling —



	Top	Bottom
4 00 pm	272	277
4 01	244	263
4 02	180	232
4 03	128	194
4 04	110	176
4 05	88	162

74° Difference

Continued. Transfg again
Thermometer 1" in —

Heating	Top	Bottom
406	94	136
407	140	160
408	178	188
409	214	224
410	236	242
411	248	254
412	258	262
413	262	267
414	264	268
415	264	268
416	267	269
417	266	268
418	268	270
419	269	271
420	268	270
	267	270

Center 296
1" in 268 28° difference

dishes on Drying

346 F

3 ached + Etch to 234

10 grams Reg Resin
14 " Alcohol
100 mlg Para
6.00 " 6/4
200 " Dry Chloride Calcium

1 = 25 - 030	Loose	no wrinks - flat
2 = 20 - 030	Loose	" "
3 = 22 . 020	"	" "
4 = 22 020	"	Slight wrink "
89		

Transfer Loose - Cut surface no horny
Exceedingly brittle no appr. of horny
Cant scratch with finger nail
Edge Cut no chip too hard - These chloride
seem to be preservative Conclusion - No weld
Resin take off no part of blank - bubbles
dont show on surface except microscopic pits

Dishes on drying

347 E

#3 Schedule
of Extra Sch Co
233

10 grams Reg Resin
14 " Alcohol
100 Mlq Para
600 " 6/4
400 " Dry Calcium Chloride

1 = 5 tabs 080 } Some wrinkles fair Loose
2 = 3 " 010 } No wrinkles Lifted - all loose
3 = 3 " 010 } Lifted - but loose no wrinkles
4 = 5 " 020 } slight wrinkles, lifted - loose
16

Dissolve on Drying

348 E

#3 Schedule
+ Extra Schedule
2.34

10 gram Reg Resin
14 " Alcohol
100 Milg Para
600 " 6/4
800 " Dry Chloride Calcium

1 = 2 — 015 } free slight wrinkle
2 = 6 micro } free Circular wrinkles
3 = 5 " } part free & part Circular "
4 5 010 } Circular wrinkles — part free —

The lot dont look promising —

18

349 E

#3 sch
Extra Sch to 235

180 grms Reg Resin
14 " Alcohol
100 Melg Para
600 " 6/4
200 " Chloride Zinc Solid

1 = 20 bubs 015 } no wrinkles
2 = 20 " 030 } ~~[illegible]~~ no wrinkles Lifts.
3 = 20 " 020 } " " Lifts 3
4 = 20 " 020 } " " Lifts 7
80

This is fair looking - Condensed very hard
200 ChlZn is too much - probably
20 will do the business - its a rapid
Condenser I think - promising for
Experiment - Phenomenon = It Cuts
harder on Bottom than on Top only
where there is a lift =

Transfer - Slick - beg pull out - brat blanks will if
face Cut slightly horny but trifle
Edge can take a very slight horny chip - Chips out
a Semi Consolidated Resin Combo -

350 E #3 Alch + Ether Sol Cy 233

10 grms Reg Resin
14 " Alcohol
100 Milg Para
600 " 6/4
400 " Dry Chloride Zinc

1 = 14-020	no cracks - Matte				
2 = 15 025 20 Milg	"	"	"	1	" "
3 = 4-020-100 Milg	"	"	"	3	" "
4 = 8-020 50 "	"	"	"	7	" "

41

Condensed very hard —

Transfer - Loose - Cracked - Scratches Easy with finger nail - Cuts like Resin, no signs of horny - Welds perfect, Can it be ZnCl Kills 6/4 or is it over condensed —

351 E

10 grms Reg Thym
14 " Alcohol
100 Wedg Para
600 " 6/14
400 " Dry Chloride Zinc

Duplicate of 350 E

upto 352 all Oven No 3 Schedule

352 E + additional " of Ex Schedule 2-3-9

10 grms Reg Resin
14 " Alcohol
100 Milg Para
600 " 6/4
800 " Dry Chloride Zinc

All Cooked up fraible -

PHENOMENON

Note 319 - This shows that on a hard blank The Weld Varnish is **not** Condensed at all not even rubbery in the transfer press —

A special Varnish must be got with Excess 6/4 + perhaps glycerine to get rapid rubber Condensation

319E cracked around Edges + the Weld Var flowed out over transfer on 2 or 3 print the smooth part Covered with it —
Cant say if it Caused Cracks

The Var Must Condense in 10 min + Blank dried so alcohol off otherwise it will not condense in 10 minutes

Reg Weld Var is Reg 7.9 6/4
1% Para No Sandrac or Negrosine
5% Lampblack

Phenomenon

Takes a very long time to Condense without Para almost impracticable to get along without it,

---

I notice on Brass Only that red wrinkles appear on face of plate — also these dry in direction of the wind from a small blower —
Nickel Dont do it — yes it does but faintly

Possibly it may be the Copper of the Brass acts as a Catalyzer to Oxidize Something in the Resin —
There is no Para in the Varnish I used —

Transfer – 6 – 5 OK 1 Ckd Var, (Edged & Buffed)

RO Fine ||||| ||||||

1
2
3 good
4 – ||||
5 |||
6 ||
none |||

1 side & four other parallel ½ cks in music Edge fair
1 side OK " side \ \\ cks in smooth part – fair
1 margin cks /// crack – poor print not good
1 usual margin cks bad cracks – fair –
1 Round-feed knock smooth bad margins
1 " only bad Extreme Edge – smooth 1/4 – parallel in music

Pretty fair

Never will be able to print until transfer turned

Moore & Hoffman

353 E 70 plates.

100 Reg 16% Resin only
6% 6/4
1% Para
4% glycerine

No Sandrac or Negrosine

Use Reg Oven schedule

Transfer 6
Print 6
1412 blanks brushed

Oven report – 71 plates, 5 large bubbles – unseen – 66 seconds – of which 40 bubbles unseen
21 Bubbles & Wrinkles 5 5 5 bubbles partached

Transfer –	1 – free	OK	1 – 6"	OK
	2 "	OK	1 3	OK
	3 "	OK	2 – 3"	OK
	4 "	OK	free	OK
91%	5 "	OK	"	OK
	6 "	OK	1 – 3"	pull out

After Buffing Transfer report
6 Transfd 4 OK 1 Ckd Var 1 mechanical

RO
1
2
3
4
5 ||
6|
None ||||| ||||

Music ||||| ||||| ||

good

Inspdn of Prints

1 = Parallell edge + 2 in music
2 feed line cracks –

1 feed line –
2 margin cks –

1 = parallell ¼ ~~from~~ in music – Smooth side
2 feed line crop –

1 – Bracked side feed line
2 Smooth side parallell cks ¼" in from edge

1 = Record side Margin + feed line cks
2 single crop margin small –

1 Record side feed line + margin
2 Smooth parallell cks 1" in –

~~Transfer report after Buffing~~
~~6 Transfd 4 OK~~

354E

Moore + Hoffman
70 Plates

100 Reg 16% Resin only
6¼% 6/4
1% para
4% glycerine

No Sandrac or Negrasin

Use Reg Oven Schedule

Transfer + Print 6
on 1412 6 Blanks Grained

Oven 76 Plates 73 good – 2 ckd 1 uneven
of the OK 40 Bubbles + Uneven – 33 Bubbles + Wrinkles

Transfer
No X + XXX
only 2 has
bad rim edges
scrapped which
0.005

1 – free – OK		1 Loose OK
1 " OK		1 2" OK
1 " OK	100%	1 2" OK
1 " OK		1 2" OK
1 " OK		1 free OK
1 " OK		1 free OK

Edged & Beaufd Transfers
6 20K 2 Cooked Center 2 Ckd Var

RO
1 Fine - ~~IIII~~ ~~IIII~~ II
2 good
3
4
5 I
6 IIII
none ~~IIII~~ II

Cracks in Music III
Fair print IIII
No cracks in Music IIII
Fair Var - ~~Sf~~ Think would be
OK if had Even Transfers

355E Woors & Haffman

70 Plates.
100 Reg 16% Resin Only
6½% 6/4
1% Pumice
4% glycerine —

No Sandrac or Negrosine
Use Reg Oven schedule

Transfer & Print 6
on 1412 6 Cards Granular

Oven 63 - 18 Large Bubbles - 2 small & aspec
42 OK of which 34 Bubbles & Wrinkled
8 Bubbles & Uneven

Transfers 1 = free OK free OK
2 " Cooked Ckd (Cooked Center) 60%
Curls Grille, shade 3 " " " 1 - / " " ckd
more heavy than 356! 4 free OK free OK
5 free OK free OK
6 free OK 1-2" ckd left

Transfer Buffd – 6 Transfd 5 OK 1 cooked Center

RO fine ~~IIII~~ IIII I

1
2
3 good
4
5 I
6 IIII
None IIII

Surface poored
the greater the
6/4 –

(1 Rec field line ckd Margin fair some Extreme Edge ckd
2 plain some single Extreme Margin Edge ckd –

(1 * Rec field line + Margin ck both sides blank gave away fair
2 plain – Margin ckd or 2 parallel ckd ½ long in middle

(1 Rec one place Extreme Edge fine parallel ckd good
2 plain Several places – groups of 6 1/8 parallel ckd in middle

(1 Rec field line ck – Margin ck 1 about one good
2 Rec " fine " good

(1 Rec Margin ck ~~[illegible]~~ field line ck fair
2 plain Margin Ckd Considerable in spots

* Think 750 pressure it would be OK

This is pressure of 750 lbs
used a blank header

356 E Moore & Haffner
70 plates
100 Reg Resin only
6½% 6/4
1% Para
6% glycerine

No Sandbag or Reprocessing

Use Reg Oven Schedule

Transfer & Press 6
on 1412 blanks Grooved

Oven 72 plates 54 Seconds — 13 bubbles
5 Raised – of 54 2nds 24 bubs & unsoved
26 Bubs & wrinkles 4 Pockets

1 =	free OK	Cuts Griffe	1 free OK
2	free OK	Some horney	1 free OK
3	free OK		1 free OK
4	free OK	91%	1 free OK
5	~~free~~ OK		free Cooked Ckd
6	— OK		free OK

After Buffing & cleaning Transfer
report shows 6 Transfer | 4 OK 2
Varnish Cracked

RO 7 wie
1
2 good
3
4 with
5 ||||
6 ||||
None ||||

1 —	parallel margin	clei not great 1 ditto —	nocks in music
2	"	"	" "
3	"	"	a few parallel in music mch in —
4	"	"	none — music
5	"	"	" "
6 —	"	"	cracked but was in Transfer

357E Moore & Hoffman
70 plates
100 Reg Resent Only 16%
6½% | 6/4
1% Para
10% Glycerine —

No Laundrine or Negrosine

Reg Oven schedule

Manufac & present
6 on 1412 blanks broken

Oven 74 plates - 18 Bubbles - 8 raised
48 seconds — of these 27 bubbles +
wrinkled — 16 Bubbles + Uneven
5 patched

Stuck to plates one side 2
Released freely 4
blanks broken out slightly
around edges —

358E

10 grms Resin
16 " Alcohol
1 gram 6/4
200 Milg Para

359E

Dup of 358E
Except 200 Milg Glycerin added

360 E

2 m Tall oven

272 E plates that have been thrown
Req oven Req schedule - 1. bend cage

273 EA. 10 plates ditto

Schedule -

12.20 pm	Cool
1.00 "	200
1 40	230
2 50	250
3 50	275 — actually 271

Cool.

Both go up to be transfd + Print

273 EA all OK Upper rack

272 1 ~~1~~ OK
2 OK
3 — small left CKd
4 — 3 lefts Fig "
5 1 left "
6 OK
7 Fig Left — "
8 Lefts 4 — "
9 10 " 10 — "

lower rack

Considerably too heavy.

Lower

361E

Duplicate of 360

Except use the bird cages

275 EC &
276 ED

Use same schedule –

362 to 373 Lo to prove if 6/4 can all be used up so it will not harden after record made
Also to prove if 6/4 hardens the Resin - then horny hardens the large quantity of phenol.
Have a Doctor transfer + use up all the hardening power

Also if Para in excess will carry the 6/4 so it is certainly Exhausted of its hardening Power

~~Fix an Oven Schedule~~
No 4 Schedule for
Big Oven recorded in
7

Hoffman

362E 70 Plates
60 CO

100 Resin
7% free Phenol
8% 6/4
1% Para

No Sandrac or Negrosine
Varnish

(1 - free / Buffed but small
(2 - / drop OK

(1 free OK
(2 / OK

(1 free OK
(2 / 3 jam OK

(1 free OK
(2 5-4" OK

(1 free OK
(2 free OK

(1 free OK
(2 free OK

Moths, Creeps, Spotted - poor body

Oven

73 plates 2 bubs 1 rained
1 chipped OK 69 -
of the OKs 23 Even 44 wrinkled
2 Patched
look wormy

After Edging + Buffing - 5 OK 1 Cracked

% free 67% OK 90%

Ro Fine

1
2 good
3
4 —
5
6 |
None

Feed line Ck due to poor print ditto
Margin Cks Margin Cks
Feed line Cks ⅛ parallelcks in music. 3 -
OK 5 " 1/4 " " several
Feed line Ck due to poor print —— Margin Cks
Feed line Cks Feed line Cks

Pretty good — turned transfer
it wanted 6 x 100%

Weld 3/8 pulls blank with it,

363E 70 plates

6000

100 Resin
8% free phenol
8% Q/4
1% Para
no sandrace or Negrosene

Varnish

1 — 1 — 4"	OK	Mottle, Creeps, spots — has poor body
2 3 6"	POut	

Oven

1 — free	OK	82 Plates 9 Bubs 2 injured
2 2 — 2"	OK	1 chipped 70 OK of which
1 free	OK	28 wrinkled 38 Even 4 uneven
2	OK	look wrinkly
1 1 2"	OK	
2 1 2"	OK	
1 // 2 4"	OK	
2 // 2 4"	OK	
1 free	OK	
2 1 2"	OK	

After Eding + Buffing — All OK except the PO in Lots
% free 20% OK 90

364E 70 plates

60cc

100 Resin
9% free phenol
8% 6/4
1% Para

No Sandrax or Neoprene
Transform little worm

1 free OK 2 OK	Varnish Creeps – Matte, spots, poor body
1 1" OK 2 1" OK	Oven 78 plates 11 Bubs 1 Dirt
1 free OK 2 / OK	66 OK of which 24 Even 38 wrinkled 4 unwn good
1 free OK 2 2-4" OK	All look wormy
1 Free OK 2 / OK	
1 Free OK 2 Free OK	

Inspection after Edging + Buffing
1 Edge cracks – 5 OK

% free 40% OK 100%

365E 70 6000

100 Resin
10% free phenol No Sandrac or Negrovine
8% 6/4
1% Para
Transform too warm stopped

1 Free OK 2 2/ OK	Varnish Matte—Creeps, Spots poor Cov
1 / OK 2 4 10" PO—	Oven
1 free OK 2 / PO—	79 plates 18 Bubbles— 61 OK of which 20 Even 26 wrinkled 7 Patched 8 Uneven
1-1.4" OK 2 2.4" OK	after Edging & Buffing
1-1-2" OK 2 1-4" OK	OK OK - possibly a OK OK OK
1 free OK 2 / OK	OK OK OK OK OK OK OK 1" Long rad

% free — 16% OK 83%

Don't permit
paper "

1 1 ok
1 ok

2 ok

3 ok

4 s.d2 ok 1 ckd

5 1 ok. 1 ckd music

6 ok

[ITEM(S) FOUND IN BOOK]

6/4	Resin	Paren	Platin	Bubs	OK	Wkd	Uneven	Even	% OK	Tran	Stacen Tiz	PO	Ckd
5½	"	1½	70	11	59	36	4	19	75	6	0	6	
5	"	1½	67	6	61	37	3	21	91				
4¾	"	1½	65	9	56	53	—	3	86				
4½	"	1½	71	5	66	39	8	19	93				
4¼	"	1½	66	—	59	38	5	16	89				
4	"	1½	67	8	59	19	18	22	88				
3¾	Fill	1½	68	—	55	16	34	8	85				
7.9	Reg Var	1	69	30	39	30	5	4	56	6	9	0	12	0
7½	"	1	74	34	40	33	2	5	54	6	9	0	11	1
7¼	"	1	69	18	50	31	19	—	72	6	9	0	12	0
7	"	1	74	30	44	32	6	6	60	6	9	3	0	1
6¾	"	1	68	21	46	32	8	6	67					
6½	"	1	71	24	47	38	3	6	66					
6	"	1	72	5	66	40	17	9	92					
5½	"	1	73	16	51	20	26	11	70					
6½	8/6 H_2O Reg Var	1½	69	11	57	3	42	12	82	6	7	6	0	1
6	"	1½	73	11	62	18	38	6	85					
5¾	"	1½	71	17	54	26	8	20	76					
5¼	"	1½	76	13	62	46	13	3	82					

Bubbles diminish as 6/4 diminishes

OK Plates Resin 87% bubs per 5.7
Reg Var 71.83 " 19.